

TIUNOV, L.A.; SMIRNOVA, O.I.

Effect of carbon monoxide on the outcome of roentgenirradiation.
Farm.i toks. 23 no.3:268-271 My-Je '60. (MIRA 14:3)
(CARBON MONOXIDE) (RADIATION SICKNESS)

KUSTOV, V.V., kand.med.nauk; TIUNOV, L.A., kand.med.nauk (Leningrad)

Analysis of the atmosphere containing various toxic mixtures.

Gig.i san. 25 no.7:92-93 JI '60.

(MIRA 14:5)

(AIR—POLLUTION)

PHASE I BOOK EXPLOITATION

SOV/5916

Trunov, L. A., G. A. Vasil'yev, and V. P. Paribok

Protivoluchevyye sredstva; spravchnik (Antiradiation Measures; Handbook)
Moscow, Izd-vo AN SSSR, 1961. 171 p. Errata slip inserted. 5000 copies
printed.

Sponsoring Agency: Akademiya nauk SSSR. Institut tsitologii.

Ed.: V. P. Paribok, Doctor of Medical Sciences, Professor; Tech.
Ed.: R. A. Zamareyeva.

PURPOSE: This handbook is intended for physicians, public health doctors,
and medical research workers who are specializing in radiation medicine.

COVERAGE: The book contains data on more than 500 antiradiation preparations
which have been tested with varying degrees of success on different types
of animals, plants, microorganisms, etc. to determine their effectiveness
as prophylactic agents against radiation affections. The authors have

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Antiradiation Measures; Handbook

SOV/5916

attempted to present in summary form the most important data published to date in the field and to provide a ready guide or standard for measuring the effectiveness of the more recent antiradiation preparations as they are developed. The material is arranged in alphabetical order. In the absence of any special definition, radiation means x-radiation. No personalities are mentioned. Some references appear in the text.

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S/203/62/002/004/004/014
I015/I215

27.1220

AUTHORS: Tiunov, L.A., Vasil'yev, G.A., and Smirnova, O.I.
(Leningrad)

TITLE: The effect of lethal X-ray doses on the blood
catalase activity

PERIODICAL: Radiobiologiya, v.2, no.4, 1962, 548-552

TEXT: There are contradictory reports in medical literature about the effect of radiation injuries on the catalase activity in blood. Experiments were carried out on 10 female dogs weighing 14-17 kg. The animals were X-irradiated from two PVM -3 (RUM-3) apparatuses simultaneously. The dose rate from apparatus No.1 was 12r/min. and that from No.2, 10r/min, up to a total dose of 600-650r. The blood catalase activity was determined every 5-10 min during one hour after irradiation. It was subsequently determined every second day during the entire observation period. The activity of catalase was measured manganometrically, according to the method of Bakh and Zubkova. Twenty days after irradiation, only one of

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S/205/62/002/004/004/014
I015/I215

The effect of lethal X-ray doses...

the dogs survived. The other animals survived on an average 14.9 days. The blood catalase activity decreased within 5 min after irradiation, and reached its maximum decrease after 20-30 min. The low activity level remained during the subsequent days, with a maximum decrease on the 18th day (one third of the normal). It is assumed that the "catalase mechanism" is related to the primary reactions of the organism to radiation injuries. There are 2 figures.

X

SUBMITTED: February 5, 1962

Card 2/2

TIUNOV, L.A.; VASIL'YEV, G.A.

Use of cytochrome C for the treatment of acute carbon monoxide poisoning. Farm. i toks. 25 no.4:483-484 J1-Ag '62.

(MIRA 17:10)

GROKHOL'SKAYA, N.V. [deceased]; KACHURINA, N.A.; TIUNOV, L.A.

Mechanism of the toxic effects of isopropylbenzene hydroperoxide.
Farm. i toks. 27 no.1:83-87 Ja-F '64.

(MIRA 17:11)

KACHURINA, N.A.; TIUNOV, L.A. (Leningrad)

Characteristics of pyrimidine metabolism in tumor tissues.
Usp. sovr. biol. 59 no.1:114-127 Ja-F '65.

(MIRA 18:3)

L 16675-66 EWT(1) SCTB DD

ACC NR: AP6007745

SOURCE CODE: UR/0293/66/COH/COH 144/0150

AUTHOR: Tiunov, L. A.; Kustov, V. V.

ORG: none

46
B

TITLE: Endogenous formation of carbon monoxide and its role in a closed ecological system

SOURCE: Kosmicheskiye issledovaniya, v. 4, no. 1, 1966, 144-150

TOPIC TAGS: carbon monoxide, closed ecology system, life support system, biochemistry, plant chemistry, radiation biologic effect, plant biologic effect, tissue physiology

ABSTRACT: Problems of the endogenous formation of carbon monoxide are reviewed and the importance of this phenomenon in closed ecological systems is stressed in a recent Soviet survey article. The review includes the following headings: Endogenous formation of carbon monoxide in mammals; Mechanism of endogenous carbon monoxide formation; Endogenous formation of carbon monoxide under the effect of ionizing radiation; and Formation of carbon monoxide in plants. It is stated that the simultaneous processes of endogenous CO formation, CO oxidation, and CO fixation take place in animal and plant tissues. These competing processes result in a certain equilibrium. This fact should be taken into account in developing life-support systems for spaceships. Orig. art. has: 1 figure. [ATD PRESS: 4198-F]

SUB CODE: 06 / SUBM DATE: 16Feb65 / ORIG REF: 012 / OTH REF: 055

Card 1/1 mc

UDC: 629.198.6:615.9

L 05419-01 EWP(j)/EWI(m) RM

ACC NR: AP6031939 (N) SOURCE CODE: UR/0177/66/000/009/0048/0051

AUTHOR: Tiunov, L. A. (Colonel, Medical Corps; Professor); Kolosova, T. S.
(Candidate of biological sciences)

ORG: none

TITLE: Sanitary inspection in connection with the use of new chemical materials in
shipbuilding /

SOURCE: Voenno-meditsinskiy zhurnal, no. 9, 1966, 48-51

TOPIC TAGS: analytic chemistry, gas chromatography, biochemistry,
shipbuilding, material control, sanitary control

ABSTRACT: The authors review current works on the sanitary control of chemical materials used in shipbuilding. They suggest that gas-chromatographic and physical methods be added to those of analytical chemistry in order to obtain a correct evaluation of the complex gas contaminants emanating from polymer materials. The use of the biochemical research method developed by A. A. Pokrovskiy in 1953 to determine phosphororganic compounds is suggested. A considerable expansion in the development of highly sensitive quantitative methods

Card 1/2

UDC: 614.31:66.017/019

L 05919-07

ACC NR: AP6031939

for analysis of complex gas mixtures is considered to be of major importance. Sanitary control must also include control over the strict correspondence between brands and various state technical specifications for materials permitted or actually used in shipbuilding. All materials must satisfy definite toxicologic health requirements. The odor coefficient of materials as a criterium is considered highly important. In conclusion the authors stress the many problems related to sanitary control of synthetic materials which must be solved in order to improve living conditions on board Soviet navy ships.

SUB CODE: 13,07/ SUBM DATE: none/ ORIG REF: 010/ OTH REF: 008/

kh

Card 2/2

SOKOLOVA, S.M.; TIUNOVA, N.A.

Irreplaceable amino acid content in the herbage of corn and the
perennial wheat M-2. Biul.Glav.bot.sada no. 48:53-56 '63.
(MIRA 17:5)

1. Glavnyy botanicheskiy sad AN SSSR.

SOKOLOVA, S.M.; TIUNOVA, N.A.

Results of research work on the biochemical and physiological characteristics of the perennial M-2 wheat. Biokhim. zer. 1
khlebopech. no.7:101-116 '64. (MIRA 17:9)

1. Glavnyy botanicheskiy sad AN SSSR, laboratoriya fiziologii
razvitiya rasteniy.

BLAGOVESHCHENSKIY, A.V.; TIUNOVA, N.A.

Effect of succinic acid on the proteolytic enzymes of germinating seeds. *Biul. Glav. bot. sada* no.54:73-75 '64.

(MIRA 17:11)

1. Glavnyy botanicheskiy sad AN SSSR.

TIUNOV, N.I., slesar'.

Device for adjusting buckets. Torf.prom. 31 no.5:29-30 '54.
(MLRA 7:8)

1. Torfopredpriyatiye Godylevo.
(Peat machinery)

S/137/62/000/002/017/144
A006/A101

AUTHORS: Madyanov, A. M., Perlitin, Ye. S., Tiunov, P. A.

TITLE: Comparing the chemical heterogeneity of an 8-ton ingot of a new shape with a bulk ingot

PERIODICAL: Referativnyy zhurnal, Metallurgiya, no. 2, 1962, 42, abstract 2V256 (V sb. "Novoye v liteyn. proiz-ve. no. 3", Gor'kiy, 1960, 238-240)

TEXT: A medium carbon steel ingot (0.41 - 0.53% C) of a new shape is different from a bulk ingot by a lower H : D. To compare the chemical heterogeneities of both ingots, a chemical analysis was made for C, P and S in samples taken off longitudinal and transverse templets. It was established that the new ingot shows a lesser range of changes in the C, P and S concentration over the height in the axial section, than the bulk ingot.

P. Arsent'yev

[Abstracter's note: Complete translation]

Card 1/1

L 22045-66 EWT(1)/EWT(m)/EWP(j)/EWP(v)/EWA(h) IJP(c) WW/RM

ACC NR: AP6009591 (N) SOURCE CODE: UR/0256/65/000/010/0059/0061

AUTHOR: Chayka, V. M. (Engineer, Captain); Tiunov, P. A. (Captain)

ORG: None

TITLE: Repair of insulated cables 25

SOURCE: Vestnik protivovozdushnoy oborony, no. 10, 1965, 59-61

TOPIC TAGS: ~~electric engineering~~, high voltage line, ~~communication wire~~,
electric cable, insulated wire, soldering/GTSA-3Kh6 insulated wire

ABSTRACT: After reviewing various active agents (ozone, surges, etc.) causing deterioration of cable insulation, the authors describe in detail the procedures used for repairing high-voltage rubber-covered cables of GTSh type. The repairs were made under military field conditions on cables laid on supports in trenches. The max. span between supports was 80 cm. Safety measures to be taken in handling high-voltage cables and in removing the damaged cable section were briefly discussed. Methods of forming new joints by skinning, twisting and soldering wires were explained. Split copper cable connecting sleeves of GM type could also be used. Soldering
Card 1/2

L 22045-66

ACC NR: AP6009591

4/
pastes of POS-18 and POS-30 types were employed. New wire joints were wrapped with PI-35 and TS3h-30 tapes to the thickness of the insulation on the original wires. Then, the entire restituted connection was wrapped with three layers of TS3h-30 rubber tapes and one cotton tape layer. Vulcanization of the connection was recommended. Ground wires were reconnected without soldering. Overall protection was formed by a layer of cotton tape and three or four layers of ShVP-50 rubber tape. Vulcanization was applied again. The amount of various materials used for repairing the GTSh-3Kh6 cable was given.

SUB CODE: 09/3/ SUBM DATE: None / ORIG REF: 000 / ORIG REF: 000

Card 2/2

PB

TIUNOV, S.

Instilling labor discipline in a factory shop. Sov.profsoiuzy
6 no.18:43-44 D '58. (MIRA 12:2)
(Labor discipline)

TIUNOV, V.; NAZAROVSKIY, B.N., red.; NEUDAKINA, N.G., tekhn.red.

[Industrial development of the western Urals] Promyshlennoe
razvitie Zapadnogo Urala. Perm', Permskoe knizhnoe izd-vo.
Book 3. 1958. 333 p. (MIRA 13:2)
(Perm Province--Industries)

TIUNOV, V.F., prof., red.; MAKHANEK, K.S., dotsent, red.; NIKOLAYEV,
S.F., assistant, red.; SANDLER, I.S., dotsent, red.; CHAZOV,
B.A., dotsent, red.; GRAYEVSKIY, A.M., red.izd-vs; NEUDAKINA,
N.G., tekhn.red.

[Perm Province; nature, history, economy, culture] Permskaia
oblst'; priroda, istoriia, ekonomika, kul'tura. Red.kollegiia
K.S.Makhanek i dr. Perm', Permskoe knizhnoe izd-vo, 1959.
405 p. (MIRA 13:2)

(Perm Province--Economic conditions)

TIUNOV, V., doktor ekonom. nauk

More attention to the development of the flour milling
industry in Perm Province, Muk.-elev. prom. 29 no.8:6-8
Ag '63. (MIRA 17:1)

1. Permskiy gosudarstvennyy universitet.

TIUNOV, V.: NAZAROVSKIY, B.N., redaktor; LAPRUN, K.I., tekhnicheskii
redaktor.

[Industrial development of the western Urals] Promyshlennoe razvitiie
zapadnogo Urala; istoriko-ekonomicheskii ocherk. Molotov, Molotov-
skoe knizhnoe izd-vo, 1954. 205 p. (MLRA 8:8)
(Ural Mountain region--Industrialization)

TIUNOV, V.F.

Zapadnyi Ural. [Western Ural]. [Molotoy], Molotovskoe obl. izd-vo, 1943. 141 p.
Railroad transportation and waterways (p. 130-142).

DLC: HC487.U85T5

SO: Soviet Transportation and Communications, A Bibliography, Library of Congress
Reference Department, Washington, 1952, Unclassified.

TIUNOV, V. F.

TIUNOV, V. F. Piatiletanii plan sibirskoi promyshlennosti. Novosibirsk, Sibirizdat, 1929.
88 p. (Sibirskii Krai cherez 5 let.)

DIC: Unclass.

SO: IC, Soviet Geography, Part II, 1951/Unclassified

TIUNOV, V. F.

TIUNOV, V. F. ed. Zapadno-sibirskii krai; goroda i raiony; osnovnye pokazateli. Novosibirsk
Zapsibkraizdat, 1936. 373 p. DLC: DK753.T5

SO: LC, Soviet Geography, Part I, 1951, Uncl.

TIUNOV, V. F.

TIUNOV, V. F. Piatiletanii plan sibirskoi promyshlennosti. Novosibirsk, Sibkraiizdat, 1929.
88 p. (Sibirskii Krai cherez 5 let.).
DLC: Unclass.

So: LC, Soviet Geography, Part II, 1951/Unclassified.

TIUNOV, V. F.

TIUNOV, V. F. Uralo-Kuznetskii kombinat (Sibirskaiia chast'). 2. izd., ispr. i dop. (Novosibirsk). Zapsibotdellenie, 1931. 67, (1) p.

DLC: Unclass.

So: LC, Soviet Geography, Part II, 1951/Unclassified.

TIUNOV, V. F.

TIUNOV, V. F., ED. Zapadno-Sibirskii Krai; goroda i raiony; osnovnye pokazateli. Novosibirsk, Zapsibkraiizdat, 1936. 373, (3) p.

DLC: DK753.T5

So: LC, Soviet Geography, Part II, 1951/Unclassified.

... ..

TIUNOV, V.F. Zapadnyi Ural. [Molotov], Molotovskoe obl. izd-vo, 1943. 441 p.
BLC: KChP.USSR

SO: LC, Soviet Geography, Part II, 1941, Unclassified

TIUNOV, V. F.

TIUNOV, V. F.

Zapadnyi Ural. Molotov, Molotovskoe obl.

izd-vo, 1943. 141 p.

DLC: HCH47.005.T5

CSt-H InU MH NN

SO: LC, Soviet Geography, Part I, 1951, Incl.

TIUNOV, V.F.

TIUNOV, V.F. Zapadnyi Ural. [Molotov], Molotovskoe obl. izd-vo, 1943, 141 p.
Cst-H InU MH MH

DLC: HC487.U85T5

SO: LC, Soviet Geography, Part I, 1951, Uncl.

TIUNOV, V.F.

TIUNOV, V.F. Uralo-Kuznetskii kombinat. Sibirskaiia chast'. 2. izd., ispr. i dop.
/Novosibirsk/, Zapsibotdelenie, 1951. 67 p.

DLC: Unclass.

SO: LC, Soviet Geography, Part I, 1951, Uncl.

TIUNOV, V.F.

TIUNOV, V.F. Piatiletanii plan sibirskoi promyshlennosti. Novosibirsk, Sibkraizdat, 1929. 88 p. (Sibirskii Krai cherez 5 let.)

DLC: Unclass.

SO: LC, Soviet Geography, Part I, 1951, Uncl.

Trichonema

TIUNOV, V.I., kand. vet. nauk.

Developmental cycle of the nematode *Trichonema longibursatum* in
the body of the horse. Trudy VIGIS 5:65-67 '53. (MIRA 11:1)
(Nematoda) (Parasites--Horses)

TRANCH. V. I.

Patologiya - Antibioticheskiye i parazitologicheskiye izmeneniya v sledstviye
otdele kishchechnika loshadey pri uzalkovoy trikhinelloze, "Works on
Helminthology" on the 70th Birthday of K. I. Skryabin, Izdat, Akad. Nauk,
SSSR, 1953, page 694.
Chair Parasitology, Kirov Agricultural Inst.

TIUNOV, V.I., dotsent; USTINOV, I.D., assistant

Prophylactic measures as a basis for controlling *mastrongylosis* in
swine. Veterinariia no.12:10-12 D '63. (MIRA 17:2)

1. Kirovskiy sel'skokhozyaystvennyy Institut.

SIMONOV, P.M.; KROPANEV, A.I.; TIUNOV, V.Ye.; VASIL'YEV, P.T.;
TURTSEVA, I.M.; SAKALDINA, Ye.D.; DYLDIN, Yu.N.;
BRAYLOVSKIY, N.G., inzh., red.; MEDVEDEVA, M.A., tekhn.
red.

[Advanced method for car inspection and repair in trains;
experience of the technical inspection point of the Sverd-
lovsk-Sortirovochnaya Station of the Sverdlovsk Railroad]
Peredovoi metod osmotra i remonta vagonov v poezdakh; opy
raboty punkta tekhnicheskogo osmotra stantsii Sverdlovsk
Sortirovochnyi Sverdlovskoi dorogi. Moskva, Transzheldor-
izdat, 1963. 39 p. (MIRA 17:3)

L 01055-67 EWT(1)/EFC(k)-2/T/EWP (k) IJP(c) WG/GD
ACC NR: AT6015136

SOURCE CODE: UR/0000/66/000/000/0137/0143

AUTHOR: Ratner, A. M.; Rom-Krichevskaya, I. A.; Tiunov, Yu. A. 59
B+1

ORG: Physico-Technical Institute of Low Temperatures, AN UkrSSR (Fiziko-
tekhnicheskii institut nizkikh temperatur AN UkrSSR)

TITLE: Separate intensity peaks in laser radiation 75

SOURCE: Respublikanskiy seminar po kvantovoy elektronike. Kvantovaya elektronika
(Quantum electronics); trudy seminara. Kiev, Naukova dumka, 1966, 137-143

TOPIC TAGS: laser, laser theory, solid state laser

ABSTRACT: An integral equation describing high-intensity variations of laser
radiation is analyzed; the number of excited centers of luminescence increases with
pumping and decreases due to de-excitation by luminous energy. With large reflector-
misalignment angles, the light energy generated in a given peak does not last until the
next peak; hence, each peak is formed separately. The distinguishing features of the
separate peaks are: (1) They are sharper than conventional oscillations; (2) They
have a longer period; (3) They are regular; (4) No damping occurs with a continuous

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L 01055-67

ACC NR: AT6015136

7 pumping; (5) The time of generated radiation does not exceed the period; this time determines the radiation spectrum; (6) Separate peaks are less polarized, and their polarization is independent of the peak number; (7) The generated energy is smaller in the case of separate peaks. A specimen of Nd glass 150-mm long and 14-mm diameter was used in an experimental study of the separate peaks; the mirror-axes misalignment was 2 angular minutes; oscillograms exhibit some changes in the generation pattern. Orig. art. has: 2 figures and 16 formulas. 0

SUB CODE: 20 / SUBM DATE: 12Feb66 / ORIG REF: 001 / OTH REF: 002

Accum
Card 2/2

CA

The causes of winter killing of grain crops when flooded
K. P. Tiunova, *Doklady Vsesoyuz. Akad. Sel'sko-Khoz.
Nauk* (1967) *V. T. Lenina* 16, No. 4, 10-19 (1951). Plants
grown in pots were flooded for 10 days during which some
were aerated with normal air, others with CO_2 , and still
others with O_2 . The plants that had CO_2 aeration survived
better than those aerated with O_2 or air. Thus, it is CO_2
deficiency rather than O_2 deficiency that is responsible for
the killing of plants. At low temps. flooding has little effect
I. S. Joffe

CA 110

The causes of winter killing of grain crops when flooded.
K. P. Timova. *Doklady Vsesoyuz. Akad. Sel'ho-Khoz. Nauk im. V. I. Lenina* 16, No. 4, 16-19(1951).-- Plants grown in pots were flooded for 10 days during which some were aerated with normal air, others with CO_2 , and still others with O_2 . The plants that had CO_2 aeration survived better than those aerated with O_2 or air. Thus, it is CO_2 deficiency rather than O_2 deficiency that is responsible for the killing of plants. At low temps. flooding has little effect.
J. S. Joffe

ТИУНОВ, В. Г.

Organizing silting by means of pulp pumping equipment. Ugol' 33 no.9:
37 S '58. (MIRA 12:1)

1. Shakhta "Bukachacha-I."
(Silt) (Mine pumps)

TIUNOV, L.A. (Leningrad)

Basic properties of xanthine oxidase. Usp.sovr.biol. 48 no.1:59-74
Jl-Ag '59. (MIRA 12:12)
(DEHYDROGENASE, pharmacology)

TIUNOVA, N.A.

Comparative investigation of gliadin in perennial wheat and its
parental forms by the diffuse salting-out method. Trudy Glav. bot.
sada 7:55-66 '61. (MIRA 14:3)
(Gliadin) (Wheat) (Salting-out)

SOV/26-127-2-6c/70

17(3,4)

AUTHOR:

Tiunova, N. A.

TITLE:

The Glutelin of the Seeds of Perennial Wheat M-2 and Its Parental Forms

PERIODICAL: Doklady Akademii nauk SSSR, 1959, Vol 127, Nr 2, pp 448 - 449 (USSR)

ABSTRACT:

The author obtained the protein of the wheat *Lutescens* 329 (*Triticum vulgare*) which is soluble in alkali, of the couch grass *Agropyrum glaucum* and of the wheat M-2 cultivated by hybridization by the method of T. V. Osborne (Ref 6). The glutelins were salted out by the same method as the glyadins, but a saturated ammonium sulfate solution of 50% in an ammonia solution of 0.2% was used for this purpose. Figures 1 and 2 show the salting out curves of the glutelin preparations of the gramineae forms investigated in dependence on the ammonium sulfate saturation. These curves show in contrast to globulins and albumins for glutelins the greatest similarity with the curves of glyadin - a protein of the gramineae soluble in alcohol. 25% of the saturated solution were necessary for the per-

Card 1/2

The Glutelin of the Seeds of Perennial Wheat M-2
and Its Parental Forms

SCV/20-127-2-60/70

fect salting out of the glutelin of the wheat *Lutescens* 329, 29% for the wheat M-2 according to the protein concentration, and 36% for the glutelin of the couch grass. The fact that the results may be reproduced and the parallels are equal shows that the conditions of salting out described here may be used for the glutelins of the *gramineae*. The preparations of the 3 mentioned proteins differ from one another by the quantity of the fractions difficult to be salted out. The surface properties of their molecules are, however, assumed to differ only inconsiderably. There are 2 figures and 6 references, 5 of which are Soviet.

ASSOCIATION: Glavnny botanicheskiy sad Akademii nauk SSSR (Botanic Main Garden of the Academy of Sciences, USSR)

PRESENTED: March 23, 1959, by N. V. Tsitsin, Academician

SUBMITTED: March 19, 1959

Card 2/2

TIUNOVA, N.A.

Protein complex of wheat grain and its changes in remote
hybridization. Trudy Glav. bot. sada 8:113-140 '61. (MIRA 15:1)
(Agropyron) (Proteins)
(Wheat)

TIUNOVA, N.A.

Fractionation of wheat gliadin and globulin. Dokl. AN SSSR 140
no.2:489-491 5 '61. (MIRA 14:9)

1. Predstavleno akademikom N.V.TSitsinyom.
(Gliadin) (Globulin) (Salting-out)

TIUREMOV, S.N.

TIUREMOV, S.N. Torfianye mestorozhenia. Moskva, Gostoptekhizdat, 1940. 370 p.

DLC: Unclass.

SO: IC, Soviet Geography, Part I, 1951, Uncl.

TIURENIOV, S.N.

TIURENIOV, S.N. Torfianye masterozhdeniya i ikh razvedka. Izd. 2., perer. Dopushcheno v kachestve uchebnika dlia torfiannykh institutov. Moskva, Gos. izdat. izd-vo, 1949.

464 p.

DA MH

DLC: TH837.T5 1949

SO: IC, Soviet Geography, Part I, 1951, Uncl.

BC

A-1

ESTIMIA
B. J. FISCHLER

Mechanism of the action of the nickel oxide electrode. I.
B. J. Fischler, G. S. Lushko, and A. D. Smirnova (U.S.S.R.)
It is usually assumed that charging of the Ni(OH)_2 electrode involves liberation of H_2 , and discharging consumes H_2 from the electrolyte. To check this assumption a Ni(OH)_2 electrode was charged in KOH; the decrease of $[\text{KOH}]$ corresponded with 1.1-2.0 mol of H_2 per faraday in 1.2% and 2.3-3.0 H_2 in 1.5% KOH. On a subsequent discharge an apparent consumption of 1.1-2.6 and 2.8-3.8 H_2 respectively per faraday took place. These effects were, however, only apparent since the amount of K_2CO_3 or KCl added to KOH remained almost constant during charge and discharge. $[\text{KOH}]$ changes become a description of consumption of KOH by Ni(OH)_2 . J. J. H.

A-1

BC

G. S. TURIKOV

Mechanism of the action of the nickel oxide electrode. I. H. V. Kricheldorf, *Electrochim. Acta*, 1970, 14, 1455-1458. It is usually assumed that charging of the Ni(OH)_2 electrode involves liberation of H_2 , and discharge consumes H_2 from the electrolyte. To check this assumption a Ni(OH)_2 electrode was charged in KOH ; the decrease of H_2O corresponded with 1.1-2.0 mol of H_2O per faraday in 1.2% and 2.3-3.0 H_2O in 1.5% KOH . On a subsequent discharge an apparent consumption of 1.1-2.6 and 2.8-3.8 H_2O respectively per faraday took place. These effects were, however, only apparent since the concentration of K_2O or KCl added to KOH remained almost constant during charge and discharge. (KOH consumed because of a slight adsorption of KOH by Ni(OH)_2). J. J. B.

AMS/AIB

*1950
E*

10-30 551.506.8.631.9

*Flurin, A. V., *Fenologicheskie nabludeniia v lesakh SSSR i ikh lesokhoziaistvennoe ispol'zovanie.* [Phenological observations in the forests of the U.S.S.R. and their silvicultural importance.] *Lesnoi Kholmstvo, Moscow*, 3(6):13-20, June 1950. chart, 7 tables. DLC - A detailed comparison of phenological data observed in the forests throughout the U.S.S.R. during 1918 and 1919. The data and discussion are arranged by regions. In all parts of the Soviet Union (even the Far East), vegetation appeared one or two weeks later in 1919 than in 1918. Subject Headings: Phenology, Forests, U.S.S.R. M R

ASH-SLA METALLURGICAL LITERATURE CLASSIFICATION

STON: 171031A

STON: 43-17V

STON: 43-17V

STON: 43-17V

TIURIN, I.B.

Research

Creative cooperation. Priroda 41, no. 5, 1952.

Monthly List of Russian Accessions. Library of Congress, August 1952. UNCLASSIFIED.

TURIAN, I.I. [Tur'yan, I. I.]; TIURIN, I.M. [Tyurin, Yu.M.]; JANTALAI,
B.P. [Zhantalay, B.P.]; GRISAEVA, S. P. [Grishayeva, S. P.]

Polarographic determination of caprolactam and amino acids,
intermediate products of synthetic fibers. Analele chimie 17
no.1:147-155 Ja-Mr '62.

TIURIN, I. V.

TIURIN, I. V.

Uslovia pochvoobrazovaniia i kratcoe opisaniie pochv
Chuvashskoi respublikhi. Pl materialam ekspeditsii 1927-
20 gg. Moskva, AN SSSR, 1935. 73 p.
NN

SO: LC Soviet Geography Part 1, 1991 Uncl.

TIURIN, I.V.

TITURIN, I.V. Usloviya razvedaniya i izucheniya puchkov Chuvashskoy respubliky
Po materialam ekspeditsii 1927-28 gg. Moskva, MG VVR, 1935. 73 p.
N II

OLC: Unclassified.

SO: LC, Soviet Geography, Part II, 1941, Unclassified

BC

Determination of the nitrogen requirement of soils. I. V. TERNAN and M. M. KONOVA (Trans. Dokuchaiev Soil Inst., 1934, 10, No. 4, 49-56).—The soil-org. matter is hydrolyzed with 0.05N-H₂SO₄ and filtered. N is determined in an aliquot. Agreement between field and laboratory experiments was obtained with 80% of the soils examined (podzols and chernozems).

A. M.

BC

Characterization of processes of soil formation under sod. L. V. TUMIN (Jubilee Issue, V. R. Williams (Moscow-Leningrad), 1935, 263-267).— Analyses of a sod and a forest profile are recorded. The org. matter of the soil under sod contains less uronic acid and more of the lignin-humus complex than that of the forest profile. CH. ANN. (p)

| (1) AND (2) COVER | | | | | | | | | | PROCESS AND PROPERTIES INDEX | | | | | | | | | | (3) AND (4) COVER | | | | | | | | | |
|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| <div style="position: absolute; top: 10%; left: 10%; font-size: 2em; font-family: cursive;">BC</div> <div style="position: absolute; top: 10%; right: 10%; font-size: 1.5em;">B-3-1</div> <div style="position: absolute; top: 30%; left: 30%; width: 60%; font-size: 0.8em;"> <p>Composition of the humus in peat soils. I. V. Tiurin and E. I. Tiurina (<i>Ecology</i>, 1960, No. 2, 10--22).--Analysis and comparison of the humus matter in chernozem and podzol soils, both long-term (<i>forest</i>) and those exposed on the surface, indicated that decomposition of humus continued slowly after the soils had been tilled. Decomposition of the tilled chernozem humus had proceeded so far that there was no appreciable change in the nature and chemical composition of the residue. Decomposition of the tilled podzol humus had affected mainly the readily hydrolyzable functions, leaving a residue similar to chernozem humus. It is concluded that humus of chernozems represents a stable system, behaving in many ways like a complex, single org. substance. S. and E. (m)</p> </div> | | | | | | | | | | <div style="writing-mode: vertical-rl; transform: rotate(180deg);">COMMON ELEMENTS</div> | | | | | | | | | | <div style="writing-mode: vertical-rl; transform: rotate(180deg);">ECONOMY MATERIALS INDEX</div> | | | | | | | | | |
| <div style="display: flex; justify-content: space-between;"> MATERIALS INDEX ASH-SLA METALLURGICAL LITERATURE CLASSIFICATION EXTRACTOR INDEX </div> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <div style="display: flex; justify-content: space-between;"> STEEL STEEL STEEL STEEL STEEL </div> | | | | | | | | | | <div style="display: flex; justify-content: space-between;"> STEEL STEEL STEEL STEEL STEEL </div> | | | | | | | | | | <div style="display: flex; justify-content: space-between;"> STEEL STEEL STEEL STEEL STEEL </div> | | | | | | | | | |
| <div style="display: flex; justify-content: space-between;"> STEEL STEEL STEEL STEEL STEEL </div> | | | | | | | | | | <div style="display: flex; justify-content: space-between;"> STEEL STEEL STEEL STEEL STEEL </div> | | | | | | | | | | <div style="display: flex; justify-content: space-between;"> STEEL STEEL STEEL STEEL STEEL </div> | | | | | | | | | |

BC

Soil organic matter. L. V. ILLIUM (Proc. Ural Acad. Sci., 1934, No. 2, 37; Proc. Internat. Ex. Soil Sci., 1935, 49, 100). Wakeman's method (acid hydrolysis) serves to distinguish org. matter decomposable by micro-organisms from that which is stable in this respect. A. G. P.

ABR-514 METALLURGICAL LITERATURE CLASSIFICATION

B-III-1

Proportion of living matter to total organic matter of soils. I. V.
 Thulin (Compt. rend. Acad. Sci. U.S.S.R., 1966, 51, 311-312).
 Under optimum growing conditions the annual supply of org. matter
 to the soil is (dry basis) > 4000 kg. per acre, of which 25% may be
 due to decay of micro-organisms and soil invertebrates. R. H. H.

ASH-SLA METALLURGICAL LITERATURE CLASSIFICATION

| SEARCHED | SERIALIZED | INDEXED | FILED | DATE | BY | CLASS | NO. | Q | R | S | T | U | V | W | X | Y | Z | AA | AB | AC | AD | AE | AF | AG | AH | AI | AJ | AK | AL | AM | AN | AO | AP | AQ | AR | AS | AT | AU | AV | AW | AX | AY | AZ | BA | BB | BC | BD | BE | BF | BG | BH | BI | BJ | BK | BL | BM | BN | BO | BP | BQ | BR | BS | BT | BU | BV | BW | BX | BY | BZ | CA | CB | CC | CD | CE | CF | CG | CH | CI | CJ | CK | CL | CM | CN | CO | CP | CQ | CR | CS | CT | CU | CV | CW | CX | CY | CZ | DA | DB | DC | DD | DE | DF | DG | DH | DI | DJ | DK | DL | DM | DN | DO | DP | DQ | DR | DS | DT | DU | DV | DW | DX | DY | DZ | EA | EB | EC | ED | EE | EF | EG | EH | EI | EJ | EK | EL | EM | EN | EO | EP | EQ | ER | ES | ET | EU | EV | EW | EX | EY | EZ | FA | FB | FC | FD | FE | FF | FG | FH | FI | FJ | FK | FL | FM | FN | FO | FP | FQ | FR | FS | FT | FU | FV | FW | FX | FY | FZ | GA | GB | GC | GD | GE | GF | GG | GH | GI | GJ | GK | GL | GM | GN | GO | GP | GQ | GR | GS | GT | GU | GV | GW | GX | GY | GZ | HA | HB | HC | HD | HE | HF | HG | HH | HI | HJ | HK | HL | HM | HN | HO | HP | HQ | HR | HS | HT | HU | HV | HW | HX | HY | HZ | IA | IB | IC | ID | IE | IF | IG | IH | II | IJ | IK | IL | IM | IN | IO | IP | IQ | IR | IS | IT | IU | IV | IW | IX | IY | IZ | JA | JB | JC | JD | JE | JF | JG | JH | JI | IJ | JK | KL | LM | LN | LO | LP | LQ | LR | LS | LT | LU | LV | LW | LX | LY | LZ | MA | MB | MC | MD | ME | MF | MG | MH | MI | MJ | MK | ML | MM | MN | MO | MP | MQ | MR | MS | MT | MU | MV | MW | MX | MY | MZ | NA | NB | NC | ND | NE | NF | NG | NH | NI | NJ | NK | NL | NM | NN | NO | NP | NQ | NR | NS | NT | NU | NV | NW | NX | NY | NZ | OA | OB | OC | OD | OE | OF | OG | OH | OI | OJ | OK | OL | OM | ON | OO | OP | OQ | OR | OS | OT | OU | OV | OW | OX | OY | OZ | PA | PB | PC | PD | PE | PF | PG | PH | PI | PJ | PK | PL | PM | PN | PO | PP | PQ | PR | PS | PT | PU | PV | PW | PX | PY | PZ | QA | QB | QC | QD | QE | QF | QG | QH | QI | QJ | QK | QL | QM | QN | QO | QP | QQ | QR | QS | QT | QU | QV | QW | QX | QY | QZ | RA | RB | RC | RD | RE | RF | RG | RH | RI | RJ | RK | RL | RM | RN | RO | RP | RQ | RR | RS | RT | RU | RV | RW | RX | RY | RZ | SA | SB | SC | SD | SE | SF | SG | SH | SI | SJ | SK | SL | SM | SN | SO | SP | SQ | SR | SS | ST | SU | SV | SW | SX | SY | SZ | TA | TB | TC | TD | TE | TF | TG | TH | TI | TJ | TK | TL | TM | TN | TO | TP | TQ | TR | TS | TT | TU | TV | TW | TX | TY | TZ | UA | UB | UC | UD | UE | UF | UG | UH | UI | UJ | UK | UL | UM | UN | UO | UP | UQ | UR | US | UT | UU | UV | UW | UX | UY | UZ | VA | VB | VC | VD | VE | VF | VG | VH | VI | VJ | VK | VL | VM | VN | VO | VP | VQ | VR | VS | VT | VU | VV | VW | VX | VY | VZ | WA | WB | WC | WD | WE | WF | WG | WH | WI | WJ | WK | WL | WM | WN | WO | WP | WQ | WR | WS | WT | WU | WV | WW | WX | WY | WZ | XA | XB | XC | XD | XE | XF | XG | XH | XI | XJ | XK | XL | XM | XN | XO | XP | XQ | XR | XS | XT | XU | XV | XW | XX | XY | XZ | YA | YB | YC | YD | YE | YF | YG | YH | YI | YJ | YK | YL | YM | YN | YO | YP | YQ | YR | YS | YT | YU | YV | YW | YX | YY | YZ | ZA | ZB | ZC | ZD | ZE | ZF | ZG | ZH | ZI | ZJ | ZK | ZL | ZM | ZN | ZO | ZP | ZQ | ZR | ZS | ZT | ZU | ZV | ZW | ZX | ZY | ZZ |
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1ST AND 2ND SHEETS

PROCESSES AND PROCEDURES INDEX

3RD AND 4TH SHEETS

BC

B-III-1

Micro-chromic acid method for [determination of] total nitrogen in soils. I. V. Trunin (Pedology, 1933, 20, 123-130).—Org. N is oxidized with 1 vol. of a 20% solution of CrO_3 + 2 vols. of conc. H_2SO_4 . NH_3 is distilled off with 50% NaOH . The results agree with those obtained by Kjeldahl's method. —A. M.

COMMON ELEMENTS

COMMON VARIANTS INDEX

ASB-51A DETALLURGICAL LITERATURE CLASSIFICATION

FROM SYNOBOL

FROM SYNOBOL

SYNOBOL #

SYNOBOL MAP ONLY ONE

SYNOBOL ONE

SYNOBOL ONE ONLY 191

SYNOBOL #

SYNOBOL MAP ONLY ONE

SYNOBOL ONE

SYNOBOL ONE ONLY 191

TIURIN, R. S.

CZECHOSLOVAKIA

LITAIKOV, I. S.; NADAN, L. G.; TIURIN, R. S.

Institute of Chemistry, Academy of Sciences of the Moldavian SSR
(Institut khimii Akademii nauk Moldavskoi SSR), Kishinev, USSR
(for all)

Prague, Collection of Czechoslovak Chemical Communications, No 12,
Dec 1965, pp 4337-4339

"Analytic importance of the stationary drop of mercury in pulse
polarography."

TIURIN, Sergei Petrovich

The U.S.S.R., and economic and social survey, with 8 maps, 18 diagrams and 67 statistical tables. 2d ed., rev. and enl. London, Methuen and co., 1945.
234 p. incl. illus. (maps) tables. DLC: HC335.T727 1945

SO: Soviet Transportation and Communications, A Bibliography, Library of Congress.
Reference Department, Washington, 1952. Unclassified.

KOROTKEVICH, A. V.; TIURIN, S. T.

Wine and wine making

Objective method for determining marc. Vin. SSSR 12 No. 9, 1952.

9. Monthly List of Russian Accessions, Library of Congress, December 195~~7~~, Uncl.
2

KOROTKEVICH, A. V.; TIURIN, S. T.

Wine and wine making

Objective method for determining marc. Vin. SSSR 12 no. 9, 1952.

9. Monthly List of Russian Accessions, Library of Congress, December 1952, Uncl.

| 1ST AND 2ND ORDERS | | | | | | | | | | 3RD AND 4TH ORDERS | | | | | | | | | |
|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| PROCEDURES AND PROPERTIES INDEX | | | | | | | | | | | | | | | | | | | |
| <p>BC</p> <p>Requirements of fungi for growth substances. B. A. VANNIN and A. TIURINA. (Compt. rend. Acad. Sci. U.R.S.S., 1939, 23: 373-378).—<i>Aspergillus niger</i>, <i>A. oryzae</i>, <i>Fusarium solani</i>, <i>F. graminearum</i>, <i>Verticillium albo-atrum</i>, <i>V. dahliae</i>, <i>Botrytis cinerea</i>, and three non-identified species of <i>Aspergillus</i>, <i>Trichoderma</i>, and <i>Alternaria</i> isolated from soil vary in their growth response to the presence or absence of .B in the medium. Saprophytic forms grow equally well in either case, but all the parasitic forms require .B for growth. This is specially noticeable in the case of <i>V. dahliae</i>, <i>F. graminearum</i>, <i>A. oryzae</i>, and <i>B. cinerea</i>, where growth of the spores of the first three is delayed for 10–20 days, whilst that of <i>B. cinerea</i> is delayed for more than 1 month in absence of .B. Fungal spores may represent a source of .B for the rate of growth may become independent of the presence of .B when the no. of spores in the medium is sufficiently great. J. N. A.</p> | | | | | | | | | | | | | | | | | | | |
| <p>ASB-SLA METALLURGICAL LITERATURE CLASSIFICATION</p> | | | | | | | | | | | | | | | | | | | |
| <p>130000 131000 132000 133000 134000 135000 136000 137000 138000 139000</p> | | | | | | | | | | <p>140000 141000 142000 143000 144000 145000 146000 147000 148000 149000</p> | | | | | | | | | |

| PROCESSING AND PROPERTY DATA | | | | | | | | | | | | | | | | | |
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| <div style="position: absolute; left: 10px; top: 10px; font-size: 2em; font-family: cursive;">BC</div> <div style="position: absolute; right: 10px; top: 10px; font-size: 1.5em;">B-3-1</div> <div style="position: absolute; top: 30%; width: 80%;"> <p>Composition of the humus in podzol soils. I. V. Tishin and E. I. Tishina / <i>Pedology</i>, 1960, No. 3, (6-8).—Analysis and comparison of the humic matter in chernozem and podzol soils. Both investigated (soils) followed close composition in the sample, however, such deviation in humus composition clearly after the soils had been studied. Decomp. of the isolated chernozem humus had proceeded at the same rate as appropriate change in the nature and physical composition of the residue. Decom. of the isolated podzol humus had affected mainly the readily hydrolyzable fraction, leaving a residue similar to chernozem humus. It is concluded that humus of chernozems represents a stable system, behaving in many ways like a complex, single org. substance. S. and E. (m)</p> </div> | | | | | | | | | | | | | | | | | |
| <div style="float: left; width: 60%;">A.S.A.-S.L.A. METALLURGICAL LITERATURE CLASSIFICATION</div> <div style="float: right; width: 35%;">E-2</div> <div style="clear: both;"></div> | | | | | | | | | | | | | | | | | |
| <div style="display: flex; justify-content: space-between;"> MATERIALS INDEX TECH NOMINAT </div> | | | | | | | | | | | | | | | | | |
| <div style="display: flex; justify-content: space-between;"> GROUPS RELATIONSHIP ONLY </div> | | | | | | | | | | | | | | | | | |
| <div style="display: flex; justify-content: space-between;"> STANDARD RELATIONSHIP ONLY </div> | | | | | | | | | | | | | | | | | |

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TIURNIN, V., inzhener-maior, kandidat na tekhnicheskite nauki

Unguided missiles. Nauka i tekhn mladezh no.6:8-9 Je '57.

TIURIN, N. D.

APPROVED FOR RELEASE: 07/16/2001

CIA-RDP86-00513R001755910017-5"

(2)

3

14656* (Modification of High-Alloy Cast Steels.) Modifikatsiya litnykh vysokolegirovannykh staley. N. D. Tiutova and V. T. Svishchenko. Doklady Akademii Nauk SSSR, v. 98, no. 1, May 1, 1954, p. 119-120. Improved cutting properties by small additions of B. Tables. 4 rel.

TIUTIN, M.

"Sweet Potatoes, Tr. from the Russian". P. 37, (HOOPERATING SERIES III,
Vol. 9, No. 7, 1954, Sofiya, Bulgaria)

SO: Monthly List of East European Accessions, (LAL), LG. Vol. 4, No. 1,
Jan. 1955, Uncl.

| 1ST AND 2ND ORDERS | | | | | | | | | | 3RD AND 4TH ORDERS | | | | | | | | | |
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| PROCESSES AND PROPERTIES INDEX | | | | | | | | | | | | | | | | | | | |
| BC | | | | | | | | | | B-II-1 | | | | | | | | | |
| <p>Absorption method for removing acetaldehyde from contact gases. N. I. Smirnov and A. A. Tsvetkov (Kinet. Katalizatsiya, 1954, No. 4, 12-20).—H₂O scrubbing of gases from the manufacture of synthetic rubber removed > 75% of the MeCHO. Ch. Abs. (p)</p> | | | | | | | | | | | | | | | | | | | |
| A.S.H.S.A. METALLURGICAL LITERATURE CLASSIFICATION | | | | | | | | | | | | | | | | | | | |
| MATERIALS INDEX | | | | | | | | | | COMMON VARIABLES INDEX | | | | | | | | | |
| SUBJECT INDEX | | | | | | | | | | SUBJECT INDEX | | | | | | | | | |
| SUBJECT INDEX | | | | | | | | | | SUBJECT INDEX | | | | | | | | | |

1. TIVINS, I. A.
2. USSR (600)
4. Electric Conductivity
7. Surface effect in a conducting trapezoidal rod situated in a ferromagnetic medium.
Izv. Sib. Akad. Nauk 3, 1951.

9. Monthly List of Russian Accessions, Library of Congress, January 1953. Unclassified.

TIUTIKOV, N.

TIUTIKOV, N. Polarographic research on tautomeric forms of benzaldoxime.
p. 361 Vol. 3, 1955 IZVESTIA. Sofia, Bulgaria

SOURCE: East European Accessions List (EEAL) Vol. 6, No. 4--April 1957

TYUTYULKOV, N. [Tiutiulkov, N.]

Quantum mechanics of electron transfer in electrochemical electrode processes. Doklady BAN 15 no.5:531-534 '62.

1. Bulgarian Academy of Science, Institute of Organic Chemistry, Sofia. Submitted by Corresponding Member S. Christov [Khristov, S.].

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"Effect of the solvent on electrode processes with preceding reaction."

IZVESTIIA, Sofia, Bulgaria, Vol. 6, 1958.

Monthly List of East European Accessions Index (EEAI), The Library of Congress, Volume 8, No. 8, August 1959.

Unclassified

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"Concerning polarographic behavior of geometric syn- and anti- isomers in oximes. III. In German."

DOKLADY, Sofia, Bulgaria, Vol. 11, no. 3, May/June 1958.

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Unclassified

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Influence of intramolecular rotation on molecular refraction. I.
Izv Inst khim BAN 7:333-339 '60. (EEAI 10:9)

1. Viesh meditsinski institut v Sofia katedra po meditsinska
khimii.

(Molecular rotation)

| 1ST AND 2ND GROUPS | | | | | | | | | | | | | | | | | | | | | | | | | | 3RD AND 4TH GROUPS | | | | | | | | | | | | | | | | | | | | | | | | | |
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| PROCESSES AND PROPERTIES INDEX | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>BC</p> <p>Properties of, and displacement-adsorption in, soap solutions. B. TITUNIKOV and S. PLECHKOVA (Allgem. Oel- u. Fett-Ztg., 1934, 31, 59-63; cf. B., 1933, 754).—The power of soap in solution (I) to displace a dye previously adsorbed on active C, and (II) to reduce the adsorption by C of a dye previously dissolved in the soap solution (S), has been studied. Both (I) and (II) increase with increasing concn. of S (up to 1%) and with the time of contact of S and the C. Castor-oil soap was the most, and rosin soap the least, effective as regards (I), but both surpassed oleine soap in the property (II). E. L.</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ASB-SLA METALLURGICAL LITERATURE CLASSIFICATION | | | | | | | | | | | | | | | | | | | | | | | | | | REGIONAL INDEX | | | | | | | | | | | | | | | | | | | | | | | | | |
| REGIONAL INDEX | | | | | | | | | | | | | | | | | | | | | | | | | | REGIONAL INDEX | | | | | | | | | | | | | | | | | | | | | | | | | |

BC

B-I-7

Stability of [sodium] perborate in washing powders. B. TITUNENKOV and N. KARJANOVA (Ukrain. Chem. J., 1986, 11, 253-256).—Silicates, laurin, and colophony soaps, β -C₆H₄OH, NH₄Cl, NH₄Ph, and NH₄Ac stabilize NaBO₃, whilst oleates, linoleates, and alkalis accelerate decomp. The most stable powders are those containing least H₂O.

R. T.

18-51A INSTALLATIONAL LITERATURE CLASSIFICATION

| 1ST AND 2ND CIPHERS | | | | | | | | | | 3RD AND 4TH CIPHERS | | | | | | | | | |
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| PROCESSING AND PROPERTIES INDEX | | | | | | | | | | | | | | | | | | | |
| <p><i>BC</i></p> <p style="text-align: right;"><i>B-II-7</i></p> <p>Toxicity of chelidonium oil, and its removal. B. TIUTUNNEIKOV, A. SOBOL, and J. TROTKIN (Ukraine. Chem. J., 1936, 11, 415-423).—The toxicity of the oil is due to an optically active resinous substance, destroyed by heating at 300° for 20 min., or by hydrogenation at 180°, and extracted by MeOH. R. T.</p> | | | | | | | | | | | | | | | | | | | |
| <p>ASB-ELA METALLURGICAL LITERATURE CLASSIFICATION</p> <p>USQW STYNSLVN USQW HIF QWY QWY USQW HIF QWY QWY USQW HIF QWY QWY</p> | | | | | | | | | | | | | | | | | | | |
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13-11-7

PROCESSES AND PROPERTIES INDEX

(Cape) sponge-wood oil. B. TINTIUMMAN IV, A. SONOT, and V. KASOMWA (Machob. Shir. Delo, 1935, 11, 123-133).—The kernels yield 63% of a pale yellow oil, d_4^{20} 0.930, n_D^{20} 1.4636, $[\alpha]_D^{25}$ +4.25°, acid val. 9.9, sap. val. 200.2, I val. (HAB) 83.0, Reichert-Meissl val. 2.5. The oil is too purgative for use in feedstuffs. Hydrogenation destroys optical activity but not purgative properties. The fatty acids of the oil comprise saturated acids (5-7) and acids of the oleic (9-11) and linoleic series (2-3%). The oil yields a

high-grade soap. The hulls cannot be included in cattle feeds owing to the presence of a protein constituent resembling but not identical with ricin.

Ch. Ans. (p)

ASH-31A METALLURGICAL LITERATURE CLASSIFICATION

REGION SYMBOLS

132

BC

PROCESSES AND PROPERTIES INDEX

B-II-7

Solvation of soaps and turbidity of soap solutions in relation to temperature. B. TETTER, NIKOV and A. TCHENNITSCHINA (Maslob. Shv. Delo, 1935, 11, 545-547).—Stearic and palmitic soap solutions form insol. ppts. at 0.25% concn. at lower temp. than do the 0.5% solutions. Oleic, lauric, rosin, naphthenic, and castor oil soaps lower the temp. at which stearic and palmitic soap solutions form insol. ppts. (Cf. Ans. (c))

ASB-ILA METALLURGICAL LITERATURE CLASSIFICATION

| GROUP | SECTION | SUBSECTION | DETAILS | REMARKS |
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| 100 | 100 | 100 | 100 | 100 |

B- II - 7

Influence of clay in soap solutions. B. TITUN-NIKOV, N. PERESTENY, S. PISCHKOVA, and A. TCHERNITSCHKINA (Moskov. Khim. Listy, 1936, 7—18).—Adsorbent clays are not beneficial in household soaps. Fatty acid soaps are more sensitive than unsaturated or resinsates to clays. Those with low adsorbent capacity, e.g., kieselguhr, are preferable for use as inorg. fillers.

Ch. Abs. (p)

BC

PROCESSING AND PROPERTIES INDEX

B-II-7

HYDROLYSIS OF SOAP IN DILUTE AQUEOUS SOLUTIONS. B. Tia-
 tiannikov and N. Kasjanova (Maslob. Shir. Delo, 1935, II,
 312-316).--The $[OH^-]$ of dil. soap solutions as used in washing
 is not an index of the extent of hydrolysis of the soap.
 Structural components of the soap solution can adsorb OH^- and
 fatty acids, and the recorded pH is $<$ that theoretically equiv.
 to the hydrolysed soap. Ch. Abs. (p)

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

| SECTION | SECTION | SECTION | SECTION |
|---------|---------|---------|---------|
| 1 | 2 | 3 | 4 |
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| 97 | 98 | 99 | 100 |

1ST AND 2ND INDEXES

PROCESSES AND PROPERTIES INDEX

3RD AND 4TH INDEXES

COMMON ELEMENTS

B-II-7

Properties of soap solutions. VIII. Hydrolysis of soap in dilute aqueous solutions. R. TUMENKHOV and N. KARIANOVA (Allgem. Chem. u. Fett-Ztg., 1934, 31, 276-278; Z. N., 1934, 683).—*ps* measurements are given, showing that the $[OH^-]$ of oil soap solutions containing added $NaOH$ or Na_2CO_3 is $<$ that corresponding to the added alkali alone. It is concluded that both OH^- (derived by hydrolysis, or added *ps* alkali) and fatty acid ions are adsorbed by certain constituents of the soap solution, so that a determination of $[OH^-]$ is not a true measure of the amount of soap hydrolyzed, which is always $>$ that calc. from the *ps* of the solution. The adsorption of OH^- by a soap solution of given concn. increases with the amount of added alkali until a certain *ps* is attained, after which it suddenly falls. The crit. *ps* and the amount of added alkali which is needed to produce it, depend on the nature of the soap. E. L.

COMMON VARIABLES INDEX

ASM-AIA METALLURGICAL LITERATURE CLASSIFICATION

| 2ND AND 3RD INDEXES | | | | | | | | | | 2ND AND 3RD INDEXES | | | | | | | | | | | | | | | | | | | | | | | | |
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| 2ND AND 3RD INDEXES | | | | | 2ND AND 3RD INDEXES | | | | | 2ND AND 3RD INDEXES | | | | | 2ND AND 3RD INDEXES | | | | | | | | | | | | | | | | | | | |
| A | B | C | D | E | F | G | H | I | J | K | L | M | N | O | P | Q | R | S | T | U | V | W | X | Y | Z | AA | AB | AC | AD | AE | AF | AG | AH | AI |

BC

117 AND 120 CROSS

PROCESSES AND PROPERTIES INDEX

180 AND 174 CROSS

2-179

Lathering power of soap solutions. R. TITIANIKOV and N. KARYANOV (Moskobinsko Zhir. Delo, 1930, No. 2, 40-44).—Maxima were observed when the concentration of fatty acids was 0.2-0.6% or 0.8-0.9%; variation in temperature has little effect. Comparative observations were made with various soaps; CHEMICAL ABSTRACTS.

ASTM-SLA METALLURGICAL LITERATURE CLASSIFICATION

FROM STATION

120 AND 117 CROSS

RELATIONS

174 AND 180 CROSS

DC

PROCESSING AND PROPERTIES INDEX

B-II-7

Formation of isocoleic acid in the hydrogenation of sunflower oil. B. TURKOVSKY and B. KNOLODOVSKAYA (Makoleins Zhir. Dost. 1970, No 5, 53-51).
 -Unsaturated solid acids cannot be produced by the dehydrogenation of stearic acid. In the earlier stage of hydrogenation 64% of the linoleic acid is reduced to Δ^7 -oleic acid; in the latter stage this isomerizes to Δ^6 -oleic acid, or isomerides with the double linking nearer to the carboxyl group. CHEMICAL ABSTRACTS.

ASS-SLA METALLURGICAL LITERATURE CLASSIFICATION

12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

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1ST AND 2ND ORDER

PROCESSES AND PROPERTIES INDEX

3RD AND 4TH ORDER

13-11 7

Determination of the hardness of soap. B. TITUMUNOV (Mosk. Boln. Zhir. Delo, 1929, No. 8, 33-36).--The hardness, determined by measurement of the depth of the impression caused by a graduated conical wedge (300 g.) falling through 20 cm., is expressed in absolute units.

CHEMICAL ABSTRACTS.

ASB-51A METALLURGICAL LITERATURE CLASSIFICATION

1929-1930

1930-1931

1931-1932

1932-1933

1933-1934

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1935-1936

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| 1ST AND 2ND QUARTERS | | | | | | | | | | 3RD AND 4TH QUARTERS | | | | | | | | | |
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| PROCESSES AND PROPERTIES (MOET) | | | | | | | | | | | | | | | | | | | |
| BC | | | | | | | | | | B-II-7 | | | | | | | | | |
| <p><u>Glossy state of soaps in commercial products.</u> B. TUPCHENKOV, K. PLESCHKOVA, and A. TCHERNITSKAYA (Moscow, <i>Sov. Dala</i>, 1937, No. 2, 18-22; No. 4, 35-37).—"Glycerin soap" differs from ordinary soap in being in the supercooled, glossy state. Supercooling is possible when castor oil or colophony is included in the soap stock, and a certain optimum crystallization temp. exists for each type of soap. The causes of formation of opaque spots in transparent soaps are discussed. R. T.</p> | | | | | | | | | | | | | | | | | | | |
| ASB-SLA METALLURGICAL LITERATURE CLASSIFICATION | | | | | | | | | | | | | | | | | | | |
| FROM STUDYING | | | | | | | | | | FROM BROWNING | | | | | | | | | |
| SUGGESTION FOR NEW USE | | | | | | | | | | SUGGESTION FOR NEW USE | | | | | | | | | |
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| 1ST AND 2ND OBSERV | | | | | | | | | | | | | | | | | | | | | | | | | | 3RD AND 4TH OBSERV | | | | | | | | | | | | | | | | | | | | | | | | | |
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| PROCESSES AND PROPERTIES INDEX | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>BC</p> <p>B-2-1</p> <p>CAUSES OF CORROSION IN AUTOCLAVES FOR ORGANIC SYNTHESIS. B. Tintinnikov and A. tschernitschkina Maslob Shir Dolo, 1935, 78-79. In the pressure synthesis of MeOH from CO and of AcOH and CH₂O from acetaldehyde severe corrosion was best prevented by purifying the H₂ from each autoclave before recycling the gas.</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>ASB. 11.4 METALLURGICAL LITERATURE CLASSIFICATION</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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UTILIZATION OF SEMI-DRYING OILS. H. J. TITNUM.
MINOX (Bell. Acad. Sci. U.R.S.S., 1933; Sci. China,
331-340).—Recent advances are discussed. B. T.

6-11-7

ASB-SLA METALLURGICAL LITERATURE CLASSIFICATION

1930-1939

1940-1949

1950-1959

1960-1969

1970-1979

1980-1989

1990-1999

2000-2009

2010-2019

2020-2029

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BC

PROCESSING AND PROPERTY INDEX

B-II-P

Chemical treatment of vegetable oils for the paint industry. R. M. Thompson (U.S. Chem. J., 1936, 11, 231-238).— Inferior quality lacquers can be made on a basis of modified ester oil (heated at 280-300° in a CO₂ atm. with 3% of Al₂O₃ and 0.5-1% of Zn dust, until the n is 1.400).

R. T.

ASM-AIA METALLURGICAL LITERATURE CLASSIFICATION

| 1ST AND 2ND ORDERS | | | | | | | | | | | | | | | | | | | | | | | | | | 3RD AND 4TH ORDERS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| PROCESSING AND PROPERTY INDEX | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p><i>bc</i></p> <p>Calculations of heat-transfer plant in chemical departments. G. N. Titiunnikey and Gomelski (<i>Notes i Chim.</i>, 1940, No. 1, 27-32).—Heat-transfer coeffs. for heat-exchange plant in the coke works $C_{12}H_6$ recovery department are derived and given in diagrammatic form. From these, heat-transfer coeffs. for straw oil-benzene heat exchangers are obtained for both laminar and turbulent conditions of flow. Increase in speed of flow increases the heat-transfer coeffs. In practice a reduction caused by formation of deposits on the heat-exchange surfaces must be taken into account. The case of heat exchangers in which distilled crude $C_{12}H_6$ vapour is cooled by oil or H_2O is also considered and curves showing heat-transfer coeffs. for different speeds of flow of the oil and H_2O are given, and the effect of deposits on the heat-exchange surfaces on the heat-transfer coeff. is considered. A. H.</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>ASB-SLA METALLURGICAL LITERATURE CLASSIFICATION</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table border="1"> <tr> <td colspan="13">GROUP</td> <td colspan="13">SUBGROUP</td> <td colspan="13">CLASS</td> <td colspan="13">SUBCLASS</td> </tr> <tr> <td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td><td>9</td><td>10</td><td>11</td><td>12</td><td>13</td> <td>14</td><td>15</td><td>16</td><td>17</td><td>18</td><td>19</td><td>20</td><td>21</td><td>22</td><td>23</td><td>24</td><td>25</td> <td>26</td><td>27</td><td>28</td><td>29</td><td>30</td><td>31</td><td>32</td><td>33</td><td>34</td><td>35</td><td>36</td><td>37</td><td>38</td><td>39</td><td>40</td><td>41</td><td>42</td><td>43</td><td>44</td><td>45</td><td>46</td><td>47</td><td>48</td><td>49</td><td>50</td><td>51</td><td>52</td> </tr> </table> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | GROUP | | | | | | | | | | | | | SUBGROUP | | | | | | | | | | | | | CLASS | | | | | | | | | | | | | SUBCLASS | | | | | | | | | | | | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 |
| GROUP | | | | | | | | | | | | | SUBGROUP | | | | | | | | | | | | | CLASS | | | | | | | | | | | | | SUBCLASS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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BC

B-I-8

Accelerated method of determining moisture content of ammonium sulphate. G. N. TYUTUN-NIKOV and K. F. KOTOVA (Koks i Chm., 1958, No. 4, 28-24).—A method depending on distillation from xylene is described. R. T.

157 AND 158 ORDERS

PROCESSES AND PROPERTIES INDEX

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161 AND 162 ORDERS

163 AND 164 ORDERS

165 AND 166 ORDERS

167 AND 168 ORDERS

169 AND 170 ORDERS

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